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# Safety Data Sheet according to WHS Regulations

Printing date 17.12.2024 Version number 4 Revision: 17.12.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

#### 1 Identification

- · Product identifier
  - · Trade name: iBond Universal
  - Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
    - · Application of the substance / the mixture Dental bonding material
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Kulzer Australia Pty Ltd Unit 20, 53 Lorraine St

PEAKHURST NSW 2210

Australia Tel: +61 (02) 9153 0311

- · Informing department: see above
- Emergency telephone number:

Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

### 2 Hazard(s) Identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Serious eye damage/irritation - Category 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
  - · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling: 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 4-methacryloxyethyltrimellitic acid anhydride
- Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

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· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid breathing mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

- · Other hazards -
  - · Results of PBT and vPvB assessment
    - · **PBT:** Not applicable. · **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
  - · Description: -

· Dangero	us components:	
67-64-1	acetone	25-50%
	Flam. Liq. 2, H225 Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	10-25%
	Skin Sens. 1B, H317	
70293-55-9	4-methacryloxyethyltrimellitic acid anhydride	10-25%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	

<sup>·</sup> Additional information For the wording of the listed hazard phrases refer to section 16.

#### 4 First Aid Measures

· After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

- After skin contact If skin irritation continues, consult a doctor.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- Information for doctor
  - · Most important symptoms and effects, both acute and delayed No further relevant information available.

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Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire Fighting Measures

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· For safety reasons unsuitable extinguishing agents Water with a full water jet.

· Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

· Protective equipment: No special measures required.

Additional information -

#### 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

-

# 7 Handling and Storage

- · Handling
  - · Precautions for safe handling Keep containers tightly sealed.
  - Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Storage
  - Requirements to be met by storerooms and containers: Store in cool location.
  - · Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from the effects of light.

Store in cool, dry conditions in well sealed containers.

· Specific end use(s) No further relevant information available.

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Additional	information about des	ign of technic	al systems: No further data; see section 7.
Componer	nts with critical values	that require m	onitoring at the workplace:
67-64-1 ac	etone		
WES Shor	t-term value: 2375 mg/m	<sup>3</sup> , 1000 ppm	
	g-term value: 1185 mg/m	<sup>3</sup> , 500 ppm	
· DNE			
67-64-1 ac			
	general population, long	-	,
	worker industrial, long te	-	186 mg/Kg/d (not defined)
		-	62 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	1,210 mg/m3 (not defined)
	worker industrial, long term, local		2,420 mg/m3 (not defined)
	general population, long term, systemic		. ,
72869-86-4	17,7,9(or 7,9,9)-trime bismethacrylate	thyl-4,13-dio	xo-3,14-dioxa-5,12-diazahexadecane-1,16-di
Oral	general population, long	term, systemic	0.3 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	1.3 mg/Kg/d (not defined)
	general population, long	term, systemic	0.7 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic		3.3 mg/m3 (not defined)
	general population, long	term, systemic	0.6 mg/m3 (not defined)
·PNE			
67-64-1 ac	etone		
freshwater		10.6 mg/l (not	,
marine water		1.06 mg/l (rabbit)	
-	atment plant	19.5 mg/l (not	,
sediment, dry weight, freshwater		30.4 mg/Kg (not defined)	
sediment, d	dry weight, marine water	3.04 mg/Kg (n	ot defined)
soil, dry we		0.112 mg/Kg (	
72869-86-4	17,7,9(or 7,9,9)-trime bismethacrylate	thyl-4,13-dio	xo-3,14-dioxa-5,12-diazahexadecane-1,16-di
freshwater		0.01 mg/l (not defined)	
marine water		0.001 mg/l (not defined)	
sewage treatment plant		3.61 mg/l (not defined)	
sediment, dry weight, freshwater		4.56 mg/Kg (n	ot defined)
sediment, dry weight, marine water		0.46 mg/Kg (not defined)	
soil, dry we	piaht	0.91 mg/Kg (n	ot defined)

Additional information: The lists that were valid during the compilation were used as basis.

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Personal protective equipment
General protective and hygienic measures
Avoid contact with the eyes.



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Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. Check protective gloves prior to each use for their proper condition.

recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

- · Eye protection: Tightly sealed safety glasses.
- · Body protection: Light weight protective clothing

#### 9 Physical and Chemical Properties

· General Information

· Appearance:
 · Form:
 · Colour:
 · Smell:
 · Odour threshold:
 pH-value:
 · Appearance:
 Liquid
 Clear
 Clear
 Characteristic
 Not determined.

Change in condition

• Melting point/freezing point: Not determined

Initial boiling point and boiling range: 55 °C
Flash point: 1.5 °C

Inflammability (solid, gaseous)
 Decomposition temperature:
 Self-inflammability:
 Not applicable.
 Not determined.
 Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· Critical values for explosion:

· Lower: Not determined.

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Upper: Not determined.
 Steam pressure: Not determined.
 Density at 20 °C 0.99 g/cm³

Relative density
Vapour density
Evaporation rate

Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Partly miscible Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic: Not determined. kinematic: Not determined.

Solvent content:

• **Water:** 19.0 % • **Solids content:** 19.1 %

· Other information No further relevant information available.

### 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Conditions to be avoided: Protect from heat and direct sunlight.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None
- · Additional information: -

### 11 Toxicological Information

- Information on toxicological effects
  - · Acute toxicity Based on available data, the classification criteria are not met.

· LD/	· LD/LC50 values that are relevant for classification:				
67-64-1 a	67-64-1 acetone				
Oral	LD50	5,800 mg/kg (rat)			
Dermal	LD50	>15,800 mg/kg (rabbit)			
Inhalative	LC50/4 h	76 mg/l (rat)			
72869-86-	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl				
	bismethacrylate				
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)			
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)			
Clrim o	. Skin opropion/irritation				

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

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- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### 12 Ecological Information

Aquatic toxicity:

· Toxicity

•				
67-64-1 acetone				
EC50/48h 8,800 mg/l (daphnia)				
LC50/96h	6,210 mg/l (fish) (OECD 203)			
	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl			
bismethacrylate				
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)	l		
LC50/96h	10.1 mg/l (fish) (OECD 203)			
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)			
NOEC / 72h	0.21 mg/l (algae) (OECD 201)			

#### Persistence and degradability

#### 67-64-1 acetone

Biodegradation 90.9 % /28d (not defined) (OECD 301D)

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

- Behaviour in environmental systems:
  - Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Additional ecological information:
  - · General notes:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

- · Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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# 13 Disposal considerations

- · Waste treatment methods
  - Recommendation

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

IINI Nisaabaa		
UN-Number · ADG, IMDG, IATA	UN1090	
UN proper shipping name · ADG · IMDG, IATA	1090 ACETONE solution ACETONE solution	
Transport hazard class(es)		
· ADG		
· Class · Label	3 (F1) Flammable liquids. 3	
· IMDG, IATA		
· Class	3 Flammable liquids.	
· Label	3	
Packing group · ADG, IMDG, IATA	II	
Environmental hazards: Marine pollutant:	No	
Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E,S-D E	



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1L

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Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· Limited quantities (LQ)

Excepted quantities (ÉQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· Transport category

· Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ)

Code: E2 Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1090 ACETONE SOLUTION, 3, II

# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Austı	· Australian Inventory of Industrial Chemicals	
	acetone	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	
	water, distilled, conductivity or of similar purity	
9004-57-3	cellulose, ethyl ether	
10373-78-1	dl-bornane-2,3-dione	
	2,5-di-tert-butylhydroquinone	
128-37-0	2,6-di-tert-butyl-p-cresol	
· Austi	· Australia: Priority Existing Chemicals	

None of the ingredients is listed.

#### · Directive 2012/18/EU

#### Regulation (EU) No 649/2012

None of the ingredients are included.

#### · National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

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#### · Other regulations, limitations and prohibitive regulations

· AICS	· AICS - Australian Inventory of Chemical Substances		
67-64-1	acetone		
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate		
7732-18-5	water, distilled, conductivity or of similar purity		
9004-57-3	cellulose, ethyl ether		
10373-78-1	dl-bornane-2,3-dione		
	2,5-di-tert-butylhydroquinone		
128-37-0	2,6-di-tert-butyl-p-cresol		

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowe'd.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

VPVB: Very Persistent and Very Bloaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific terrate organ toxicity (single exposure). Category 3

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.